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Stu

HSWA LANL G/M/R '98

Date: February 13, 1998
 Refer to: EM/ER:98-041

Mr. Benito Garcia
 NMED-HRMB
 P.O. Box 26110
 Santa Fe, NM 87502

**SUBJECT: QUARTERLY TECHNICAL REPORT FOR
 OCTOBER-DECEMBER 1997**

Dear Mr. Garcia:

Enclosed are two copies of the Environmental Restoration Project's Quarterly Technical Report, October-December 1997. The Quarterly Technical Report presents information from each field unit on the quarter's activities, including sampling, cleanups, and report writing. Also enclosed is a certification statement signed by the designee owner and operator for the Los Alamos National Laboratory.

If you have questions regarding this report, please contact Tori George at (505) 665-6953 or Joe Mose at (505) 667-5808.

Sincerely,

Julie A. Canepa

Julie A. Canepa, Program Manager
 LANL/ER Project

Sincerely,

Theodore J. Taylor

Theodore J. Taylor, Program Manager
 DOE/LAAO

JC/TTss

- Enclosures: (1) Quarterly Technical Report, October-December 1997
 (2) Certification



8161

Tc

Cy (w/ encs.):

M. Boettner, EM/ER, MS M992 (2 copies)
J. Brown, FSS-16, MS F674
A. Dorries, TSA-11, MS M992
T. George, EM/ER, MS M992
D. Griswold, AL-ERD, MS A906
D. Krier, EES-1, MS D462
L. Maassen, EM/ER, MS M992
R. Michelotti, CST-7, MS E525
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CERTIFICATION

I certify under penalty of law that these documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

Document Title: Quarterly Technical Report, October-December 1997

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LA-UR-98-605

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Los Alamos National Laboratory
Environmental Restoration

A Department of Energy Environmental Cleanup Program

QUARTERLY TECHNICAL REPORT
OCTOBER-DECEMBER 1997

February 13, 1998

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LIST OF ACRONYMS AND ABBREVIATIONS

AP	Administrative procedure
BMP	Best management practice
D&D	Decontamination and decommissioning
ER	Environmental restoration
ESH	Environment, Safety, and Health (Division)
ESH-18	Water Quality and Hydrology Group
FIMAD	Facility for Information Management, Analysis, and Display
FY	Fiscal year
HSWA	Hazardous and Solid Waste Amendments
LANL	Los Alamos National Laboratory
MDA	Material disposal area
NFA	No Further Action
NMED	New Mexico Environment Department
NOD	Notice of deficiency
NPDES	National pollutant discharge elimination system
PRS	Potential release site
RCRA	Resource Conservation and Recovery Act
RFI	RCRA facility investigation
RSI	Request for supplemental information
SAP	Sampling and analysis plan
TA	Technical area
VCA	Voluntary corrective action
VCM	Voluntary corrective measure

**QUARTERLY TECHNICAL REPORT
OCTOBER-DECEMBER 1997
LOS ALAMOS NATIONAL LABORATORY
ENVIRONMENTAL RESTORATION PROJECT**

ALBUQUERQUE OPERATIONS OFFICE

CONTRACTOR: University of California

PROJECT MANAGER: Julie Canepa

NUMBER OF POTENTIAL RELEASE SITES: Approximately 2,000

POTENTIAL WASTE: Radionuclides, High Explosives, Metals, Organics

1.0 INTRODUCTION

This quarterly report describes the technical status of activities in the Los Alamos National Laboratory (the Laboratory) Environmental Restoration (ER) Project. The activities are divided according to field units and then by the technical area (TA) where the specific activity is located. The Hazardous and Solid Waste Amendments (HSWA) portion of the Laboratory's Hazardous Waste Facility Permit (Module VIII, Section P, Task V, C) requires the submission of a technical progress report on a quarterly basis. This report, submitted to fulfill the permit's requirement, summarizes much of the field work performed this quarter in the ER Project.

2.0 FIELD UNITS

2.1 Field Unit 1 — Technical Areas 0, 1, 3, 10, 19, 21, 26, 30, 31, 32, 43, 45, 59, 60, 61, 64, 73, and 74 (Acting Field Project Leader: Brad Martin)

2.1.1 General Information for Field Unit 1

In the first quarter of FY98, Resource Conservation and Recovery Act (RCRA) facility investigation (RFI) planning, notice of deficiency (NOD)/request for supplemental information (RSI) response preparation, and sampling continued at TAs- 0, -1, -10, -19, -21, -61, and -73.

RFI reports in preparation this quarter include

- the RFI report for TA-0, former oil storage area (Potential Release Site PRS 0-027);
- the RFI report for TA-21, surface disposal areas [PRSs 21-013(b,f,g)]; and
- the RFI report for TA-21, Material Disposal Area (MDA) T [PRSs 21-016(a-c), 21-028(a), 21-011(c), C-21-009, and C-21-012].

NOD/RSI responses completed and submitted this quarter include

- the response to the NOD for the RFI report for the County Recreation Center [Potential Release Sites (PRSs) 0-028(a,b)];
- the response to the RSI for the RFI report for the Community Center solvent tanks (PRS 0-039);
- the response to the RSI for the voluntary corrective action (VCA) plan for the manhole in the Catholic Church parking lot (PRS C-0-043);
- the response to the RSI for the VCA report for the can dump site [PRS 1-003(d)];
- the response to the notice of determination for a permit modification requesting NFA, dated September 1996;
- the response to the RSI for the RFI report for the 6th Street Warehouses [PRSs 0-030(l,m)];
- the response to the RSI for the RFI report for the 6th Street Warehouses [PRS 0-033(a)];
- the response to the RSI for the RFI sampling and analysis plans for MDA T [PRSs 21-016(a-c) and 21-011(c)];
- the response to the RSI for the RFI sampling and analysis plan for the TA-21 laundry [PRS 21-018(b)];
- the response to the RSI for the RFI report for the septic tank and outfall at TA-31 (PRS 31-001); and
- the response to the RSI for the VCA report for a septic tank and outfall at TA-21 [PRS 21-024(d)].

NOD responses in preparation this quarter include

- the response to the disapproval of the RFI Work Plan for Operable Unit 1114, Addendum 1, and
- the response to the NOD for the RFI report for TA-21, 1B and 1C, and the related addendum (waiting for clarification of New Mexico Environment Department [NMED] issues).

Sampling and analysis plans (SAPs), and VCA plans in preparation this quarter include

- the SAP for the DP Canyon investigation;
- the SAP for the Upper Sandia Canyon investigation;
- the SAP for PRSs 21-011(a,b,d-j), 21-001, C-21-005, C-21-007, and C-21-033 Phase I;
- the VCA plan for PRS 21-024(i);
- the SAP for PRSs 73-002(m), 73-003, and 73-005 Phase II;

- the VCA plan for the Central Wastewater Treatment Plant (PRS 0-019); and
- the VCA plan for the sludge-drying bed [PRS 3-014(m)].

Other reports completed or in preparation this quarter include

- the scope of work for the TA-45 tank removal and
- the fencing plan for the Research Park tract [PRSs 3-009(b), 3-055(c), 3-038(a,b)].

2.1.2 Technical Area Activities

2.1.2.1 TA-0

PRS C-0-041 The field unit initiated planning to revisit the Tar Site VCA after new erosion exposed additional tar on the surface of the area.

PRS 0-027 Air sampling of the Knights of Columbus building was completed for the DP Road Investigation (PRS 0-027); work will resume on the RFI report for this PRS. Remediation alternatives are still being explored for possible VCA or voluntary corrective measures (VCM) options.

PRS 0-030(j) The property holder has not granted access to the land encompassing PRS 0-030(j), the Sombrillo Nursing Facility septic tank; therefore, field work cannot begin.

PRS 0-019 Preparations are under way for the VCA plan for the Central Wastewater Treatment Plant. The field-related documents and notifications are partially complete.

2.1.2.2 TA-1

The NMED has issued a rejection for the RFI report for aggregates K, L, M, and O [PRSs 1-002, 1-001(t), 1-007(k)]. Additional effort for site visits and field work is anticipated.

PRS 1-001(d) Monitoring continues at Hillside 138 to ensure that storm water controls and the revegetation efforts are performing as expected.

2.1.2.3 TA-3

The Laboratory continues to wait for clarification from NMED concerning a disapproval notice for the RFI Work Plan for Operable Unit 1114, Addendum 1. Therefore, preparation of sampling and analysis plans as called out in the FY97 baseline has not commenced.

Upper Sandia Canyon The technical team for the Upper Sandia Canyon RFI continued the preparation of a sampling and analysis plan. The NMED has responded in part to requests for information regarding the determination of cleanup levels; however, they have not provided a definite position yet on the use of risk-based or prescriptive cleanup levels. Additional emphasis on the assessment of ecological concerns in the canyon is being added to the objectives section of the SAP.

PRS 3-014(m) The preparations continue for the VCA for the sludge-drying bed associated with structure TA-3-198. Additional internal reviews are required, and the implementation of the plan may be delayed slightly.

PRS 3-014(n) Confirmatory samples indicate that additional material must be removed from the oil-dumping area to meet the specified cleanup levels.

PRS 3-056(c) The slope stabilization design at the transformer storage area is complete. However, implementing the design has been delayed, and other best management practices (BMPs) that have a longer anticipated operational life and require less regular maintenance have been installed at the site.

2.1.2.4 TA-10

PRSs 10-002(a,b), 10-003(a-o), 10-004(a,b), 10-005, and 10-007 The field team continues to inspect and maintain surface water runoff controls, fences, and postings at the Central Area in Bayo Canyon.

2.1.2.5 TA-19

PRSs 19-001, 19-003 and C-19-001 The field team continued waste management and storm water control inspection activities at the former East Gate Laboratory site. Waste shipments are scheduled for January 1998.

2.1.2.6 TA-21

DP Canyon The technical team continued sampling and data assessment at DP Canyon during the first quarter of FY98. As a result of the current reorganization of the ER Project, personnel are reassessing where DP Canyon fits within the new focus area structure.

PRSs 21-016(a-c), 21-011(c), 21-028(a), C-21-009, and C-21-012 The technical team has slowed the work on the report for the investigation of MDA T in order to assess changes in priority and methods that may result from the ER reorganization.

PRS 21-024(i) The field team continues to prepare for implementation of a VCA at this outfall and septic system. The anticipated start date has been delayed because of wet and frozen soil conditions at the site and uncertainty about the disposal options that are available for the various waste streams expected from this remediation.

2.1.2.7 TA-32

PRS 32-002(a,b) The field team continues to inspect and maintain storm water controls at the PRS 32-002 septic tanks and outfalls.

2.1.2.8 TA-60

ER personnel and Johnson Controls Northern New Mexico have cleaned up the Sigma Mesa oil spill. Waste from the cleanup remains on site because of contractual delays in obtaining shipping and disposal services. The material is expected to be shipped in early 1998.

2.1.2.9 TA-61

PRS 61-002 The field team resampled the former transformer storage location to ensure that previous cleanup and confirmation efforts had adequately defined the extent of contamination. Discussions between the Laboratory regulatory compliance groups and ER pertaining to administrative options for the closure of this site are under way.

2.1.2.10 TA-73

The approach to field sampling at the airport is being re-evaluated on the basis of the ER reorganization and the priority of this area relative to land transfer issues. Additional sampling will be required at several TA-73 sites based on the outcome of correspondence and discussions with the NMED. The technical team is preparing plans for executing the additional work as well as for continuing the activities from FY97.

2.2 Field Unit 2 — Technical Areas 12, 14, 15, 18, 20, 27, 36, 39, 53, 65, 67, 68, 71, and 72 (Field Project Leader: Gene Gould)

2.2.1 General Information for Field Unit 2

Field Unit personnel and Water Quality and Hydrology Group (ESH-18) representatives visited all of the PRSs at TAs -12/67, -14, and -15 to assess stormwater issues for LANL-ER-AP 4.5, "Evaluation and Notification of Potential Surface Water Concerns at Environmental Restoration Sites." LANL-ER-AP-4.5 activities were completed, and the proper documentation was submitted to ESH-18 and the ER Project Office.

During October, November, and December, the Field Unit 2 team inspected the BMPs at PRSs 14-002(a), 14-003, 14-009, 14-010, 15-004(f), 15-006(c), 15-008(a), 15-008(b), and 9-013.

In October Field Unit 5 personnel asked the Field Unit 2 team to place strawbales and silt fencing at PRS 9-013, MDA M. The team also began replacing the rows of dirt berms.

2.2.2 Technical Area Activities

2.2.2.1 TA-15

The SAP for Phase I continuation for PRSs 15-009(f and k) was written and reviewed. The ES&H questionnaire and the excavation permit were approved for work at PRSs 15-009(f and k).

Waste characterization samples were collected from the drums at PRS 15-004(f) and PRS 15-006(c).

2.3 Field Unit 3 — Technical Areas 11, 13, 16, 24, 25, 28, 33, 37, 46, and 70 (Field Project Leader: Roy Michelotti)

2.3.1 General Information for Field Unit 3

Field Unit 3 submitted to NMED responses to RSIs for three reports: (1) TA-16-260 RFI Report; (2) TA-33 January 1995 RFI Report ; and (3) TA-33 MDA K Report. Site visits and data review associated with LANL-ER-AP-4.5, "Evaluation and Notification of Potential Surface Water Concerns at Environmental Restoration Sites," were conducted for sites with surface water concerns. The information was provided to ESH-18 and the ER Project Office for submission to NMED.

2.3.2 Technical Area Activities

2.3.2.1 TA-16

The TA-16 field team completed drilling at the TA-16-260 outfall [PRS 16-021(c)]. Drilling, sampling, and logging activities were completed on the last of 13 boreholes. Decontamination and demobilization of equipment continues.

Six alluvial boreholes were drilled, and monitoring wells were completed for the TA-16 hydrogeology activity. Two moderate depth (200 ft) boreholes were completed east of PRS 16-021(c). Perched water was found in one borehole. Potassium bromide (KBr) tracer breakthrough at SWSC Cut Spring at TA-16 suggests fracture transport in the vadose zone near the TA-16-260 outfall.

The V-Site VCM resumed once D&D was initiated at V-Site and building TA-16-27. Samples were collected and submitted for analysis for four PRSs.

2.3.2.2 TA-33

The TA-33 field team completed two institutional interim measures at septic tanks at TA-33. Mixed waste was generated during the interim measure activity for the PRS 33-004(a) septic system; disposal options are currently being evaluated.

2.4 Field Unit 4 — Technical Areas 2, 4, 5, 35, 41, 42, 48, 52, 55, 63, and 66 and Canyons (Field Project Leader: Allyn Pratt)

2.4.1 General Information for Field Unit 4

Work has begun on the Pajarito Canyon work plan. Chapters 2 and 3 are being written as existing data for the canyon are reviewed. The field team is incorporating information regarding environmental surveillance data for Pajarito Canyon and RFI activities at TA-18. They have developed a preliminary canyon site map and have generated preliminary channel profile cross sections.

Field Unit 4 personnel initiated the ESH-ID process and the excavation permit for Mortandad Canyon field work. They also initiated a new access agreement with San Ildefonso Pueblo personnel for field activities planned for calendar year 1998.

The field team worked with the ER Project Office to update ER Project standard operating procedures regarding surface and subsurface sampling to identify volatile organic compounds. The team also conducted a mock groundwater sampling event at well LLAO-2 for members of the San Ildefonso Pueblo Department of Environment and Cultural Preservation on December 18, 1997.

The technical team completed work associated with LANL-ER-AP-4.5, "Evaluation and Notification of Potential Surface Water Concerns at Environmental Restoration Sites." They prepared constituent evaluation forms, data sets, and current maps of the PRSs. They identified sample locations for 24 PRSs with erosion matrix scores of >60, including 8 PRSs that were considered high priority, and 126 PRSs with erosion matrix scores of <60. Constituent evaluation data for all PRSs were submitted for the ER Project constituent database. Field Unit 4 personnel presented information on the eight high-priority sites (four TA-35 sites and four TA-48 sites) at the Surface Water Assessment Team meetings. The results of the constituent evaluations were discussed, and the team made recommendations for the PRSs.

2.4.2 Technical Area Activities

2.4.2.1 Canyons

The following Canyons activities occurred during the first quarter of FY98.

- A field technician completed monthly water level measurements for wells located in Los Alamos Canyon and Pueblo Canyon that are identified in the RFI work plan for Operable Unit 1098 (LANL 1993, 21404).
- The sediment investigation team completed the primary phases of field work and sediment sampling that were planned for the Los Alamos Canyon and Pueblo Canyon reaches. Geomorphic field work included geomorphic mapping, measurements of thickness of post-1942 sediment, development of stratigraphy descriptions, and obtaining cores for tree ring analysis in reaches LA-1, LA-2, LA-4, P-2, and P-3. Also, sediment samples were collected in reaches LA-1, LA-2, LA-4, P-2, P-3, and P-4, and analytical results have been received from samples collected in reaches LA-1, LA-4, P-2, and P-3. Preliminary analysis and interpretation of these data are under way.
- The sediment investigations at Los Alamos Canyon and Pueblo Canyon resulted in the following new findings.
 - Larger sources of plutonium apparently exist in the western part of Los Alamos Canyon than previously believed; however, plutonium is present there at much lower concentrations than in Pueblo Canyon. Although Laboratory documents written before this investigation indicate that discharges from TA-21 into DP Canyon are the primary source for plutonium in Los Alamos Canyon upstream from State Road 4, the current investigation indicates that the highest concentrations and the largest inventories of plutonium appear to occur from outfalls from TA-1 facilities upstream from DP Canyon. Samples collected in November will allow further evaluation of possible upstream sources for plutonium and other contaminants in upper Los Alamos Canyon.
 - Reach LA-4 on the western part of San Ildefonso Pueblo lands contains mixtures of contaminants derived from both Pueblo Canyon and upper Los Alamos Canyon. These contaminants are at lower concentrations than have been found upstream in reaches LA-3 and P-4, which supports the expected downstream dilution of contaminants. Current evidence supports the conclusion that contaminant inventories on San Ildefonso Pueblo land are also quite low in comparison with reaches on Laboratory property. Samples collected in November will allow further evaluation of the distribution of contaminants on this part of San Ildefonso Pueblo.
 - Measured concentrations of plutonium in reaches P-2 and P-3 in the central part of Pueblo Canyon are low compared with upstream and downstream reaches. The plutonium inventories are also relatively low despite the presence of large volumes of post-1942 sediment. These results were surprising and may indicate that a relatively small amount of the sediment was from the early post-WW II years when plutonium concentrations were highest.
- The groundwater investigation team has begun drilling the R-9 characterization borehole in Los Alamos Canyon, at the eastern boundary of the Laboratory and west of State Road 4. The borehole is designed to provide water-quality and water-level data for potential intermediate-depth perched zones and for the regional aquifer downgradient of numerous mesa-top and canyon-floor sites that are believed to be possible contaminant sources in upper Los Alamos Canyon. Borehole R-9 is also designed to collect hydrologic and geologic data that could contribute to the understanding of the vadose zone and regional aquifer in

this part of the Laboratory. These data will include key parameters for numerical flow and transport models and for geochemical models. The hydrologic and geologic data will also be used in conjunction with data from other planned characterization boreholes as well as data from other sources to evaluate and update the site-wide conceptual model for groundwater.

The results from the drilling of borehole R-9 and interpretations that follow are preliminary and will be updated as additional information is collected from this borehole. Highlights of activities from the drilling of borehole R-9 include the following.

- Water was found in the bottom of the borehole, at a depth of 579 ft.
- Water samples were collected on December 18, 1997, for tritium and on December 20, 1997, for full-suite analyses. Analytical data are pending.
- As of December 21, 1997, the water level appeared to be stabilizing at a depth of 527 ft, which is 53 ft above the top of the water-bearing zone. The depth that water was first encountered and the potentiometric surface are higher than predictions based on regional maps for the top of the regional aquifer.
- Given the confined nature of the aquifer and its high pressure head, the issue of an appropriate screen length and placement are presently being reconsidered. A new well completion is being designed, and it will be presented to the regulators in early 1998.

2.4.2.2 TA-4

Field Unit 4 personnel began work on an RFI report for TA-4.

2.4.2.3 TA-35

Field Unit 4 personnel completed the following activities associated with report writing.

- Began work on the TA-35 RFI report for PRSs 35-016(a, c, d, m, and p) and C-35-007. Information was downloaded from the Facility for Information Management, Analysis, and Display (FIMAD) and reviewed. Focused validation and data quality assessments were completed. The screening assessment and decision analysis for the PRSs were completed.
- Completed a response to the request for supplemental information on the RFI report for TA-35 PRSs 35-004(a, g, h, and m); 35-009(e); 35-014(g₁ and g₂); and 35-016(b, j, n, and q) and submitted it to NMED on October 30, 1997.
- Prepared a draft response to the second NOD on the response to the NOD for the TA-35 RFI report (LA-UR-96-1293) dated April 18, 1997, and prepared a separate deliverable to supplement the response to the NOD. The response to the NOD and the supplemental information were submitted to the NMED on December 5, 1997.
- Discussed sampling and analytical methods for the remaining sampling activities at PRS 35-003(r). Changes to the SAP will be necessary.

2.4.2.4 TA-42

Field Unit 4 personnel requested from NMED an extension for submitting the revised RFI report for former TA-42.

2.4.2.5 TA-55

Field Unit 4 personnel began downloading data from FIMAD for the RFI report for TA-55.

2.5 Field Unit 5 — Technical Areas 6, 7, 8, 9, 22, 23, 40, 49, 54, 57, 58, 62, and 69 (Field Project Leader: Don Krier)

2.5.1 General Information for Field Unit 5

Field unit personnel continued to work on five RFI status reports scheduled for completion in FY98:

- status report for TA-49, MDA AB, Area 2 and cold coring [PRSs 49-001 (b,c,d)];
- status report for TA-50, MDA C (PRS 50-009);
- status report for TA-54, MDA H (PRS 54-004);
- status report for TA-54, MDA J (PRS 54-005); and
- status report for TA-54 MDA L (PRS 54-006).

The field unit received approval from the state on the RFI report on channel sediments at Mesita Del Buey (Area G).

An RSI for a VCA report on PRS 57-006 was received during November. A response was completed and sent to NMED on December 9, 1997.

A final review draft of the VCA completion report for PRS 49-008(d) cleanup activities was completed and submitted to the US Department of Energy/Los Alamos Area Office October 23, 1997.

2.5.2 Technical Area Activities

2.5.2.1 TA-49

PRS 49-001(b,c,d) Odex casing was removed from the 700 ft borehole, 49-2901, in Area 12 (close to Area 2) to allow tests on the subsurface properties. Field tests were completed for downhole anemometry and *in situ* measurements of gas permeability of different geologic units. A surface casing was cemented in place and the borehole was instrumented for *in situ* moisture metric potential measurements using a SEAMIST flexible membrane and gypsum block psychrometers. The string of psychrometers will be monitored continuously for a period of about six months and will provide important data on moisture transport properties of the subsurface at TA-49. An RFI status report on subsurface investigations conducted at MDA AB Area 2 in 1993-1994 is in preparation.

Planning, scheduling, and cost-estimating for activity at the asphalt pad area covering Area 2 at MDA AB were addressed during the quarter; field activities are projected to begin in February 1998.

Field Unit 5 completed installation of the multipychrometer instrument strap for long-term monitoring in borehole 49-12-700-1.

Field Unit 5 installed a temporary plug in abandoned TA-49, Area 5 monitoring well DT-5P.

2.5.2.2 TA-50

PRS 50-009 (MDA C) An RFI status report for MDA C is in process.

2.5.2.3 TA-54

PRS 54-004 (MDA H) Preparation of an RFI Status Report addressing subsurface investigations conducted at MDA H during 1995 was initiated.

PRS 54-005 (MDA J) Preparation of an RFI status report addressing subsurface investigations conducted at MDA J during 1995 was initiated. A first draft was completed and is in review.

PRS 54-006 (MDA L) Quarterly pore-gas sampling to monitor the subsurface volatile organic vapor plume around MDA L was conducted. Repairs to field screening instruments delayed completion of the sampling until late in the quarter. One of two damaged sampling wells was repaired during the quarter. The second will be repaired when the ground has thawed in the spring.

Reports on all previous tests at MDA L relating to the pilot vapor extraction study were completed. A proposed modification to the study plan was drafted; the revised modification will be completed for submission to NMED in the second quarter of FY98. Passive vapor extraction tests continue to be conducted as scheduled.

An RFI status report addressing subsurface investigations conducted at MDA L will be revised based on review comments.

3.0 CLOSURES AND REGULATORY COMPLIANCE — (Project Leader: David McInroy)

3.1 Closures

3.1.1 TA-16 — MDA P Landfill

The stormwater collection trench for the west lobe of the landfill was completed as part of the premobilization activities. A series of test pits into the landfill has been completed. These pits will identify the types and quantity of contamination that will be found in different locations on the site. Detonable high explosives and high barium concentrations were found in some of the pits. Excavation of the landfill is expected to begin next quarter. Design work was started for the replacement burn pad.

3.1.2 TA-35 — TSL 85 Surface Impoundment

No response has been received from the NMED on the closure report submitted to them at the end of September 1996.

3.2 Regulatory Compliance

Regulatory staff continue to work with the New Mexico Surface Water Quality Bureau in addressing their concerns associated with erosion of and surface water runoff from ER sites. LANL-ER-AP 4.5 activities have been completed for over 90 percent of the ER sites. This

information is shared with NMED and is used by the ER Project to prioritize installation of BMPs and accelerated cleanups.

4.0 REFERENCE

LANL (Los Alamos National Laboratory), June 1993. "RFI Work Plan for Operable Unit 1098," Los Alamos National Laboratory Report LA-UR-92-3825, Los Alamos, New Mexico. (LANL 1993, ER ID Number 15314)